

Release notes for ENDF/B Development n-060_Nd_143
evaluation

ENDF
B-VII.dev

April 26, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section
MAT=6028, MF= 1, MT=451 (1): Parsing stopped

```
ERROR(S) FOUND IN MAT=6028, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      269 TO      410
```

- checkr Errors:

1. A variable is outside the allowed ENDF range
MAT=6028, MF= 1, MT=451 (0): Variable range

```
ERROR(S) FOUND IN MAT=6028, MF= 1, MT=451
MOD =      1 OUT OF RANGE      0 -      0      RECORD NUMBER      269
```

2. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 2, MT=151 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6028, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY      RECORD NUMBER      412
```

3. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT= 1 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6028, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY      RECORD NUMBER      1331
```

4. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT= 2 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6028, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY      RECORD NUMBER      1348
```

5. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT= 4 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6028, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY      RECORD NUMBER      1378
```

6. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT= 16 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6028, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY      RECORD NUMBER      1400
```

7. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT= 17 (0): Directory (b)

ERROR(S) FOUND IN MAT=6028, MF= 3, MT= 17
SECTION 3/ 17 NOT IN DIRECTORY RECORD NUMBER 1410

8. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT= 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=6028, MF= 3, MT= 22
SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER 1416

9. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT= 24 (0): Directory (b)

ERROR(S) FOUND IN MAT=6028, MF= 3, MT= 24
SECTION 3/ 24 NOT IN DIRECTORY RECORD NUMBER 1427

10. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=6028, MF= 3, MT= 28
SECTION 3/ 28 NOT IN DIRECTORY RECORD NUMBER 1435

11. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT= 41 (0): Directory (b)

ERROR(S) FOUND IN MAT=6028, MF= 3, MT= 41
SECTION 3/ 41 NOT IN DIRECTORY RECORD NUMBER 1444

12. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT= 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=6028, MF= 3, MT= 51
SECTION 3/ 51 NOT IN DIRECTORY RECORD NUMBER 1451

13. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT= 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=6028, MF= 3, MT= 52
SECTION 3/ 52 NOT IN DIRECTORY RECORD NUMBER 1467

14. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT= 53 (0): Directory (b)

ERROR(S) FOUND IN MAT=6028, MF= 3, MT= 53
SECTION 3/ 53 NOT IN DIRECTORY RECORD NUMBER 1481

15. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT= 54 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 3, MT= 54 | RECORD NUMBER | 1495 |
| SECTION 3/ 54 NOT IN DIRECTORY | | |
16. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT= 55 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 3, MT= 55 | RECORD NUMBER | 1508 |
| SECTION 3/ 55 NOT IN DIRECTORY | | |
17. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT= 56 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 3, MT= 56 | RECORD NUMBER | 1521 |
| SECTION 3/ 56 NOT IN DIRECTORY | | |
18. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT= 57 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 3, MT= 57 | RECORD NUMBER | 1534 |
| SECTION 3/ 57 NOT IN DIRECTORY | | |
19. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT= 58 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 3, MT= 58 | RECORD NUMBER | 1547 |
| SECTION 3/ 58 NOT IN DIRECTORY | | |
20. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 3, MT= 59 | RECORD NUMBER | 1560 |
| SECTION 3/ 59 NOT IN DIRECTORY | | |
21. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 3, MT= 60 | RECORD NUMBER | 1573 |
| SECTION 3/ 60 NOT IN DIRECTORY | | |
22. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT= 61 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 3, MT= 61 | RECORD NUMBER | 1586 |
| SECTION 3/ 61 NOT IN DIRECTORY | | |
23. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT= 62 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 3, MT= 62 | RECORD NUMBER | 1599 |
| SECTION 3/ 62 NOT IN DIRECTORY | | |
24. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT= 63 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 3, MT= 63 | RECORD NUMBER | 1611 |
| SECTION 3/ 63 NOT IN DIRECTORY | | |
25. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT= 64 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 3, MT= 64 | RECORD NUMBER | 1623 |
| SECTION 3/ 64 NOT IN DIRECTORY | | |
26. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT= 65 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 3, MT= 65 | RECORD NUMBER | 1635 |
| SECTION 3/ 65 NOT IN DIRECTORY | | |
27. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT= 66 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 3, MT= 66 | RECORD NUMBER | 1647 |
| SECTION 3/ 66 NOT IN DIRECTORY | | |
28. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT= 91 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 3, MT= 91 | RECORD NUMBER | 1659 |
| SECTION 3/ 91 NOT IN DIRECTORY | | |
29. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT=102 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 3, MT=102 | RECORD NUMBER | 1675 |
| SECTION 3/102 NOT IN DIRECTORY | | |
30. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT=103 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 3, MT=103 | RECORD NUMBER | 1693 |
| SECTION 3/103 NOT IN DIRECTORY | | |
31. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT=107 (0): Directory (b)

- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=6028, MF= 3, MT=107 | |
| | SECTION 3/107 NOT IN DIRECTORY | RECORD NUMBER 1710 |
32. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT=600 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=6028, MF= 3, MT=600 | |
| | SECTION 3/600 NOT IN DIRECTORY | RECORD NUMBER 1753 |
33. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT=601 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=6028, MF= 3, MT=601 | |
| | SECTION 3/601 NOT IN DIRECTORY | RECORD NUMBER 1766 |
34. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT=602 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=6028, MF= 3, MT=602 | |
| | SECTION 3/602 NOT IN DIRECTORY | RECORD NUMBER 1779 |
35. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT=603 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=6028, MF= 3, MT=603 | |
| | SECTION 3/603 NOT IN DIRECTORY | RECORD NUMBER 1791 |
36. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT=604 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=6028, MF= 3, MT=604 | |
| | SECTION 3/604 NOT IN DIRECTORY | RECORD NUMBER 1803 |
37. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT=605 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=6028, MF= 3, MT=605 | |
| | SECTION 3/605 NOT IN DIRECTORY | RECORD NUMBER 1815 |
38. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT=606 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=6028, MF= 3, MT=606 | |
| | SECTION 3/606 NOT IN DIRECTORY | RECORD NUMBER 1827 |
39. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT=607 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 3, MT=607 | RECORD NUMBER | 1839 |
| SECTION 3/607 NOT IN DIRECTORY | | |
40. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT=608 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 3, MT=608 | RECORD NUMBER | 1851 |
| SECTION 3/608 NOT IN DIRECTORY | | |
41. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT=609 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 3, MT=609 | RECORD NUMBER | 1863 |
| SECTION 3/609 NOT IN DIRECTORY | | |
42. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT=610 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 3, MT=610 | RECORD NUMBER | 1875 |
| SECTION 3/610 NOT IN DIRECTORY | | |
43. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT=611 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 3, MT=611 | RECORD NUMBER | 1887 |
| SECTION 3/611 NOT IN DIRECTORY | | |
44. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 3, MT=649 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 3, MT=649 | RECORD NUMBER | 1899 |
| SECTION 3/649 NOT IN DIRECTORY | | |
45. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 4, MT= 2 (0): Directory (b)
- | | | |
|--|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 4, MT= 2 | RECORD NUMBER | 1912 |
| SECTION 4/ 2 NOT IN DIRECTORY | | |
46. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 4, MT= 51 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 4, MT= 51 | RECORD NUMBER | 2057 |
| SECTION 4/ 51 NOT IN DIRECTORY | | |
47. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 4, MT= 52 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 4, MT= 52 | RECORD NUMBER | 2132 |
| SECTION 4/ 52 NOT IN DIRECTORY | | |
48. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 4, MT= 53 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 4, MT= 53 | RECORD NUMBER | 2197 |
| SECTION 4/ 53 NOT IN DIRECTORY | | |
49. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 4, MT= 54 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 4, MT= 54 | RECORD NUMBER | 2260 |
| SECTION 4/ 54 NOT IN DIRECTORY | | |
50. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 4, MT= 55 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 4, MT= 55 | RECORD NUMBER | 2353 |
| SECTION 4/ 55 NOT IN DIRECTORY | | |
51. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 4, MT= 56 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 4, MT= 56 | RECORD NUMBER | 2445 |
| SECTION 4/ 56 NOT IN DIRECTORY | | |
52. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 4, MT= 57 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 4, MT= 57 | RECORD NUMBER | 2504 |
| SECTION 4/ 57 NOT IN DIRECTORY | | |
53. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 4, MT= 58 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 4, MT= 58 | RECORD NUMBER | 2563 |
| SECTION 4/ 58 NOT IN DIRECTORY | | |
54. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 4, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 4, MT= 59 | RECORD NUMBER | 2622 |
| SECTION 4/ 59 NOT IN DIRECTORY | | |
55. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 4, MT= 60 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 4, MT= 60 | RECORD NUMBER | 2679 |
| SECTION 4/ 60 NOT IN DIRECTORY | | |
56. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 4, MT= 61 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 4, MT= 61 | RECORD NUMBER | 2734 |
| SECTION 4/ 61 NOT IN DIRECTORY | | |
57. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 4, MT= 62 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 4, MT= 62 | RECORD NUMBER | 2789 |
| SECTION 4/ 62 NOT IN DIRECTORY | | |
58. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 4, MT= 63 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 4, MT= 63 | RECORD NUMBER | 2842 |
| SECTION 4/ 63 NOT IN DIRECTORY | | |
59. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 4, MT= 64 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 4, MT= 64 | RECORD NUMBER | 2895 |
| SECTION 4/ 64 NOT IN DIRECTORY | | |
60. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 4, MT= 65 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 4, MT= 65 | RECORD NUMBER | 2948 |
| SECTION 4/ 65 NOT IN DIRECTORY | | |
61. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 4, MT= 66 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 4, MT= 66 | RECORD NUMBER | 2999 |
| SECTION 4/ 66 NOT IN DIRECTORY | | |
62. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 4, MT=600 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6028, MF= 4, MT=600 | RECORD NUMBER | 3050 |
| SECTION 4/600 NOT IN DIRECTORY | | |
63. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 4, MT=601 (0): Directory (b)

- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=6028, MF= 4, MT=601 | |
| | SECTION 4/601 NOT IN DIRECTORY | RECORD NUMBER 3105 |
64. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 4, MT=602 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=6028, MF= 4, MT=602 | |
| | SECTION 4/602 NOT IN DIRECTORY | RECORD NUMBER 3160 |
65. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 4, MT=603 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=6028, MF= 4, MT=603 | |
| | SECTION 4/603 NOT IN DIRECTORY | RECORD NUMBER 3215 |
66. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 4, MT=604 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=6028, MF= 4, MT=604 | |
| | SECTION 4/604 NOT IN DIRECTORY | RECORD NUMBER 3270 |
67. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 4, MT=605 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=6028, MF= 4, MT=605 | |
| | SECTION 4/605 NOT IN DIRECTORY | RECORD NUMBER 3325 |
68. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 4, MT=606 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=6028, MF= 4, MT=606 | |
| | SECTION 4/606 NOT IN DIRECTORY | RECORD NUMBER 3380 |
69. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 4, MT=607 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=6028, MF= 4, MT=607 | |
| | SECTION 4/607 NOT IN DIRECTORY | RECORD NUMBER 3435 |
70. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 4, MT=608 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=6028, MF= 4, MT=608 | |
| | SECTION 4/608 NOT IN DIRECTORY | RECORD NUMBER 3490 |
71. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 4, MT=609 (0): Directory (b)

- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=6028, MF= 4, MT=609 | |
| SECTION 4/609 NOT IN DIRECTORY | RECORD NUMBER 3545 |
72. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 4, MT=610 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=6028, MF= 4, MT=610 | |
| SECTION 4/610 NOT IN DIRECTORY | RECORD NUMBER 3600 |
73. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 4, MT=611 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=6028, MF= 4, MT=611 | |
| SECTION 4/611 NOT IN DIRECTORY | RECORD NUMBER 3655 |
74. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 6, MT= 16 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=6028, MF= 6, MT= 16 | |
| SECTION 6/ 16 NOT IN DIRECTORY | RECORD NUMBER 3711 |
75. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 6, MT= 17 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=6028, MF= 6, MT= 17 | |
| SECTION 6/ 17 NOT IN DIRECTORY | RECORD NUMBER 5579 |
76. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 6, MT= 22 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=6028, MF= 6, MT= 22 | |
| SECTION 6/ 22 NOT IN DIRECTORY | RECORD NUMBER 5723 |
77. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 6, MT= 24 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=6028, MF= 6, MT= 24 | |
| SECTION 6/ 24 NOT IN DIRECTORY | RECORD NUMBER 8600 |
78. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 6, MT= 28 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=6028, MF= 6, MT= 28 | |
| SECTION 6/ 28 NOT IN DIRECTORY | RECORD NUMBER 9322 |
79. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 6, MT= 41 (0): Directory (b)

- ERROR(S) FOUND IN MAT=6028, MF= 6, MT= 41
SECTION 6/ 41 NOT IN DIRECTORY RECORD NUMBER 10825
80. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 6, MT= 91 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF= 6, MT= 91
SECTION 6/ 91 NOT IN DIRECTORY RECORD NUMBER 11179
81. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 6, MT=102 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF= 6, MT=102
SECTION 6/102 NOT IN DIRECTORY RECORD NUMBER 17358
82. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF= 6, MT=649 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF= 6, MT=649
SECTION 6/649 NOT IN DIRECTORY RECORD NUMBER 19672
83. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=12, MT= 51 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=12, MT= 51
SECTION 12/ 51 NOT IN DIRECTORY RECORD NUMBER 21218
84. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=12, MT= 52 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=12, MT= 52
SECTION 12/ 52 NOT IN DIRECTORY RECORD NUMBER 21222
85. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=12, MT= 53 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=12, MT= 53
SECTION 12/ 53 NOT IN DIRECTORY RECORD NUMBER 21226
86. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=12, MT= 54 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=12, MT= 54
SECTION 12/ 54 NOT IN DIRECTORY RECORD NUMBER 21230
87. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=12, MT= 55 (0): Directory (b)

- ERROR(S) FOUND IN MAT=6028, MF=12, MT= 55
SECTION 12/ 55 NOT IN DIRECTORY RECORD NUMBER 21234
88. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=12, MT= 56 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=12, MT= 56
SECTION 12/ 56 NOT IN DIRECTORY RECORD NUMBER 21238
89. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=12, MT= 57 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=12, MT= 57
SECTION 12/ 57 NOT IN DIRECTORY RECORD NUMBER 21242
90. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=12, MT= 58 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=12, MT= 58
SECTION 12/ 58 NOT IN DIRECTORY RECORD NUMBER 21246
91. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=12, MT= 59 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=12, MT= 59
SECTION 12/ 59 NOT IN DIRECTORY RECORD NUMBER 21250
92. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=12, MT= 60 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=12, MT= 60
SECTION 12/ 60 NOT IN DIRECTORY RECORD NUMBER 21254
93. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=12, MT= 61 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=12, MT= 61
SECTION 12/ 61 NOT IN DIRECTORY RECORD NUMBER 21258
94. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=12, MT= 62 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=12, MT= 62
SECTION 12/ 62 NOT IN DIRECTORY RECORD NUMBER 21262
95. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=12, MT= 63 (0): Directory (b)

- ERROR(S) FOUND IN MAT=6028, MF=12, MT= 63
SECTION 12/ 63 NOT IN DIRECTORY RECORD NUMBER 21267
96. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=12, MT= 64 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=12, MT= 64
SECTION 12/ 64 NOT IN DIRECTORY RECORD NUMBER 21271
97. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=12, MT= 65 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=12, MT= 65
SECTION 12/ 65 NOT IN DIRECTORY RECORD NUMBER 21275
98. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=12, MT= 66 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=12, MT= 66
SECTION 12/ 66 NOT IN DIRECTORY RECORD NUMBER 21279
99. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=12, MT=601 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=12, MT=601
SECTION 12/601 NOT IN DIRECTORY RECORD NUMBER 21283
100. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=12, MT=602 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=12, MT=602
SECTION 12/602 NOT IN DIRECTORY RECORD NUMBER 21287
101. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=12, MT=603 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=12, MT=603
SECTION 12/603 NOT IN DIRECTORY RECORD NUMBER 21291
102. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=12, MT=604 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=12, MT=604
SECTION 12/604 NOT IN DIRECTORY RECORD NUMBER 21295
103. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=12, MT=605 (0): Directory (b)

- ERROR(S) FOUND IN MAT=6028, MF=12, MT=605
SECTION 12/605 NOT IN DIRECTORY RECORD NUMBER 21299
104. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=12, MT=606 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=12, MT=606
SECTION 12/606 NOT IN DIRECTORY RECORD NUMBER 21303
105. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=12, MT=607 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=12, MT=607
SECTION 12/607 NOT IN DIRECTORY RECORD NUMBER 21308
106. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=12, MT=608 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=12, MT=608
SECTION 12/608 NOT IN DIRECTORY RECORD NUMBER 21312
107. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=12, MT=609 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=12, MT=609
SECTION 12/609 NOT IN DIRECTORY RECORD NUMBER 21316
108. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=12, MT=610 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=12, MT=610
SECTION 12/610 NOT IN DIRECTORY RECORD NUMBER 21320
109. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=12, MT=611 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=12, MT=611
SECTION 12/611 NOT IN DIRECTORY RECORD NUMBER 21325
110. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=14, MT= 51 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=14, MT= 51
SECTION 14/ 51 NOT IN DIRECTORY RECORD NUMBER 21330
111. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=14, MT= 52 (0): Directory (b)

- ERROR(S) FOUND IN MAT=6028, MF=14, MT= 52
SECTION 14/ 52 NOT IN DIRECTORY RECORD NUMBER 21332
112. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=14, MT= 53 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=14, MT= 53
SECTION 14/ 53 NOT IN DIRECTORY RECORD NUMBER 21334
113. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=14, MT= 54 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=14, MT= 54
SECTION 14/ 54 NOT IN DIRECTORY RECORD NUMBER 21336
114. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=14, MT= 55 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=14, MT= 55
SECTION 14/ 55 NOT IN DIRECTORY RECORD NUMBER 21338
115. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=14, MT= 56 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=14, MT= 56
SECTION 14/ 56 NOT IN DIRECTORY RECORD NUMBER 21340
116. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=14, MT= 57 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=14, MT= 57
SECTION 14/ 57 NOT IN DIRECTORY RECORD NUMBER 21342
117. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=14, MT= 58 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=14, MT= 58
SECTION 14/ 58 NOT IN DIRECTORY RECORD NUMBER 21344
118. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=14, MT= 59 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=14, MT= 59
SECTION 14/ 59 NOT IN DIRECTORY RECORD NUMBER 21346
119. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=14, MT= 60 (0): Directory (b)

- ERROR(S) FOUND IN MAT=6028, MF=14, MT= 60
SECTION 14/ 60 NOT IN DIRECTORY RECORD NUMBER 21348
120. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=14, MT= 61 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=14, MT= 61
SECTION 14/ 61 NOT IN DIRECTORY RECORD NUMBER 21350
121. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=14, MT= 62 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=14, MT= 62
SECTION 14/ 62 NOT IN DIRECTORY RECORD NUMBER 21352
122. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=14, MT= 63 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=14, MT= 63
SECTION 14/ 63 NOT IN DIRECTORY RECORD NUMBER 21354
123. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=14, MT= 64 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=14, MT= 64
SECTION 14/ 64 NOT IN DIRECTORY RECORD NUMBER 21356
124. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=14, MT= 65 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=14, MT= 65
SECTION 14/ 65 NOT IN DIRECTORY RECORD NUMBER 21358
125. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=14, MT= 66 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=14, MT= 66
SECTION 14/ 66 NOT IN DIRECTORY RECORD NUMBER 21360
126. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=14, MT=601 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=14, MT=601
SECTION 14/601 NOT IN DIRECTORY RECORD NUMBER 21362
127. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=14, MT=602 (0): Directory (b)

- ERROR(S) FOUND IN MAT=6028, MF=14, MT=602
SECTION 14/602 NOT IN DIRECTORY RECORD NUMBER 21364
128. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=14, MT=603 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=14, MT=603
SECTION 14/603 NOT IN DIRECTORY RECORD NUMBER 21366
129. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=14, MT=604 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=14, MT=604
SECTION 14/604 NOT IN DIRECTORY RECORD NUMBER 21368
130. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=14, MT=605 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=14, MT=605
SECTION 14/605 NOT IN DIRECTORY RECORD NUMBER 21370
131. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=14, MT=606 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=14, MT=606
SECTION 14/606 NOT IN DIRECTORY RECORD NUMBER 21372
132. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=14, MT=607 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=14, MT=607
SECTION 14/607 NOT IN DIRECTORY RECORD NUMBER 21374
133. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=14, MT=608 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=14, MT=608
SECTION 14/608 NOT IN DIRECTORY RECORD NUMBER 21376
134. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=14, MT=609 (0): Directory (b)
- ERROR(S) FOUND IN MAT=6028, MF=14, MT=609
SECTION 14/609 NOT IN DIRECTORY RECORD NUMBER 21378
135. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=14, MT=610 (0): Directory (b)

ERROR(S) FOUND IN MAT=6028, MF=14, MT=610

SECTION 14/610 NOT IN DIRECTORY

RECORD NUMBER 21380

136. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=14, MT=611 (0): Directory (b)

ERROR(S) FOUND IN MAT=6028, MF=14, MT=611

SECTION 14/611 NOT IN DIRECTORY

RECORD NUMBER 21382

137. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=33, MT= 1 (0): Directory (b)

ERROR(S) FOUND IN MAT=6028, MF=33, MT= 1

SECTION 33/ 1 NOT IN DIRECTORY

RECORD NUMBER 21385

138. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=33, MT= 2 (0): Directory (b)

ERROR(S) FOUND IN MAT=6028, MF=33, MT= 2

SECTION 33/ 2 NOT IN DIRECTORY

RECORD NUMBER 21640

139. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=33, MT= 4 (0): Directory (b)

ERROR(S) FOUND IN MAT=6028, MF=33, MT= 4

SECTION 33/ 4 NOT IN DIRECTORY

RECORD NUMBER 21895

140. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=33, MT= 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=6028, MF=33, MT= 16

SECTION 33/ 16 NOT IN DIRECTORY

RECORD NUMBER 22010

141. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6028, MF=33, MT=102 (0): Directory (b)

ERROR(S) FOUND IN MAT=6028, MF=33, MT=102

SECTION 33/102 NOT IN DIRECTORY

RECORD NUMBER 22037

• psyche Warnings:

1. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 3.62000E-04 / ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 3.62000E-04 / DENSITY 7.42566E+01 SHOULD BE 5.35703E+01 (0): URR dens. (a)

FILE 2

SECTION 151

ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 3.62000E-04

ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 3.62000E-04

DENSITY 7.42566E+01 SHOULD BE 5.35703E+01

2. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 6.00000E+03. STRENGTH FUNCTION IS 3.62000E-04 / DENSITY 7.42066E+01 SHOULD BE 5.35343E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 6.00000E+03. STRENGTH FUNCTION IS 3.62000E-04
DENSITY 7.42066E+01 SHOULD BE 5.35343E+01
```

3. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 6.50000E+03. STRENGTH FUNCTION IS 3.62000E-04 / DENSITY 7.41565E+01 SHOULD BE 5.34982E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 6.50000E+03. STRENGTH FUNCTION IS 3.62000E-04
DENSITY 7.41565E+01 SHOULD BE 5.34982E+01
```

4. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 7.00000E+03. STRENGTH FUNCTION IS 3.62000E-04 / DENSITY 7.41062E+01 SHOULD BE 5.34619E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 7.00000E+03. STRENGTH FUNCTION IS 3.62000E-04
DENSITY 7.41062E+01 SHOULD BE 5.34619E+01
```

5. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 3.62000E-04 / DENSITY 7.40561E+01 SHOULD BE 5.34257E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 3.62000E-04
DENSITY 7.40561E+01 SHOULD BE 5.34257E+01
```

6. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.00000E+03. STRENGTH FUNCTION IS 3.62000E-04 / DENSITY 7.40060E+01 SHOULD BE 5.33896E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 8.00000E+03. STRENGTH FUNCTION IS 3.62000E-04
DENSITY 7.40060E+01 SHOULD BE 5.33896E+01
```

7. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.50000E+03. STRENGTH FUNCTION IS 3.62000E-04 / DENSITY 7.39559E+01 SHOULD BE 5.33534E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 8.50000E+03. STRENGTH FUNCTION IS 3.62000E-04
DENSITY 7.39559E+01 SHOULD BE 5.33534E+01
```

8. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 9.00000E+03. STRENGTH FUNCTION IS 3.62000E-04 / DENSITY 7.39059E+01 SHOULD BE 5.33174E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 9.00000E+03. STRENGTH FUNCTION IS 3.62000E-04
DENSITY 7.39059E+01 SHOULD BE 5.33174E+01
```

9. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 9.50000E+03. STRENGTH FUNCTION IS 3.62000E-04 / DENSITY 7.38559E+01 SHOULD BE 5.32813E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 9.50000E+03. STRENGTH FUNCTION IS 3.62000E-04
DENSITY 7.38559E+01 SHOULD BE 5.32813E+01
```

10. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 3.62000E-04 / DENSITY 7.38058E+01 SHOULD BE 5.32452E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 3.62000E-04
DENSITY 7.38058E+01 SHOULD BE 5.32452E+01
```

11. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 3.62000E-04 / DENSITY 7.37060E+01 SHOULD BE 5.31731E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 3.62000E-04
DENSITY 7.37060E+01 SHOULD BE 5.31731E+01
```

12. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.20000E+04. STRENGTH FUNCTION IS 3.62000E-04 / DENSITY 7.36063E+01 SHOULD BE 5.31012E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.20000E+04. STRENGTH FUNCTION IS 3.62000E-04
DENSITY 7.36063E+01 SHOULD BE 5.31012E+01
```

13. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.30000E+04. STRENGTH FUNCTION IS 3.62000E-04 / DENSITY 7.35067E+01 SHOULD BE 5.30294E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.30000E+04. STRENGTH FUNCTION IS 3.62000E-04
DENSITY 7.35067E+01 SHOULD BE 5.30294E+01
```

14. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.40000E+04. STRENGTH FUNCTION IS 3.62000E-04 / DENSITY 7.34074E+01 SHOULD BE 5.29577E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.40000E+04. STRENGTH FUNCTION IS 3.62000E-04
DENSITY 7.34074E+01 SHOULD BE 5.29577E+01
```

15. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 3.62000E-04 / DENSITY 7.33081E+01 SHOULD BE 5.28861E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 3.62000E-04
DENSITY 7.33081E+01 SHOULD BE 5.28861E+01
```

16. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.60000E+04. STRENGTH FUNCTION IS 3.62000E-04 / DENSITY 7.32089E+01 SHOULD BE 5.28145E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.60000E+04. STRENGTH FUNCTION IS 3.62000E-04
DENSITY 7.32089E+01 SHOULD BE 5.28145E+01
```

17. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.70000E+04. STRENGTH FUNCTION IS 3.62000E-04 / DENSITY 7.31099E+01 SHOULD BE 5.27431E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.70000E+04. STRENGTH FUNCTION IS 3.62000E-04
DENSITY 7.31099E+01 SHOULD BE 5.27431E+01
```

18. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.80000E+04. STRENGTH FUNCTION IS 3.62000E-04 / DENSITY 7.30111E+01 SHOULD BE 5.26718E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.80000E+04. STRENGTH FUNCTION IS 3.62000E-04
DENSITY 7.30111E+01 SHOULD BE 5.26718E+01
```

19. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.90000E+04. STRENGTH FUNCTION IS 3.62000E-04 / DENSITY 7.29123E+01 SHOULD BE 5.26006E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.90000E+04. STRENGTH FUNCTION IS 3.62000E-04
DENSITY 7.29123E+01 SHOULD BE 5.26006E+01
```

20. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.62000E-04 / DENSITY 7.28138E+01 SHOULD BE 5.25295E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 3.62000E-04
DENSITY 7.28138E+01 SHOULD BE 5.25295E+01
```

21. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / TOTAL OF 61 POINTS IN ERROR FOR THIS J-STATE (0): URR dens. (b)

```
FILE 2
SECTION 151
TOTAL OF 61 POINTS IN ERROR FOR THIS J-STATE
TOTAL OF 61 POINTS IN ERROR FOR THIS J-STATE
TOTAL OF 61 POINTS IN ERROR FOR THIS J-STATE
... [6 more lines]
```

22. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 8.00000E-05 / ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 6.88762E+01 SHOULD BE 5.39152E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 8.00000E-05
ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 6.88762E+01 SHOULD BE 5.39152E+01
```

23. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 6.00000E+03. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 6.88298E+01 SHOULD BE 5.38789E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 6.00000E+03. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 6.88298E+01 SHOULD BE 5.38789E+01
```

24. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 6.50000E+03. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 6.87833E+01 SHOULD BE 5.38425E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 6.50000E+03. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 6.87833E+01 SHOULD BE 5.38425E+01
```

25. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 7.00000E+03. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 6.87367E+01 SHOULD BE 5.38060E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 7.00000E+03. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 6.87367E+01 SHOULD BE 5.38060E+01
```

26. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 6.86902E+01 SHOULD BE 5.37696E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 6.86902E+01 SHOULD BE 5.37696E+01
```

27. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.00000E+03. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 6.86438E+01 SHOULD BE 5.37333E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 8.00000E+03. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 6.86438E+01 SHOULD BE 5.37333E+01
```

28. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.50000E+03. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 6.85973E+01 SHOULD BE 5.36969E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 8.50000E+03. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 6.85973E+01 SHOULD BE 5.36969E+01
```

29. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 9.00000E+03. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 6.85509E+01 SHOULD BE 5.36606E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 9.00000E+03. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 6.85509E+01 SHOULD BE 5.36606E+01
```

30. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 9.50000E+03. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 6.85045E+01 SHOULD BE 5.36242E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 9.50000E+03. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 6.85045E+01 SHOULD BE 5.36242E+01
```

31. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 6.84581E+01 SHOULD BE 5.35879E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 6.84581E+01 SHOULD BE 5.35879E+01
```


32. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 6.83655E+01 SHOULD BE 5.35154E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 6.83655E+01 SHOULD BE 5.35154E+01
```

33. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.20000E+04. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 6.82730E+01 SHOULD BE 5.34430E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.20000E+04. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 6.82730E+01 SHOULD BE 5.34430E+01
```

34. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.30000E+04. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 6.81806E+01 SHOULD BE 5.33707E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.30000E+04. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 6.81806E+01 SHOULD BE 5.33707E+01
```

35. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.40000E+04. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 6.80885E+01 SHOULD BE 5.32986E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.40000E+04. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 6.80885E+01 SHOULD BE 5.32986E+01
```

36. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 6.79964E+01 SHOULD BE 5.32265E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 6.79964E+01 SHOULD BE 5.32265E+01
```

37. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.60000E+04. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 6.79044E+01 SHOULD BE 5.31545E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.60000E+04. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 6.79044E+01 SHOULD BE 5.31545E+01
```

38. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.70000E+04. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 6.78126E+01 SHOULD BE 5.30826E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.70000E+04. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 6.78126E+01 SHOULD BE 5.30826E+01
```

39. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.80000E+04. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 6.77209E+01 SHOULD BE 5.30109E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.80000E+04. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 6.77209E+01 SHOULD BE 5.30109E+01
```

40. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.90000E+04. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 6.76293E+01 SHOULD BE 5.29392E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.90000E+04. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 6.76293E+01 SHOULD BE 5.29392E+01
```

41. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 6.75379E+01 SHOULD BE 5.28676E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 6.75379E+01 SHOULD BE 5.28676E+01
```

42. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 8.00000E-05 / ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 7.42566E+01 SHOULD BE 4.19340E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 8.00000E-05
ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 7.42566E+01 SHOULD BE 4.19340E+01
```

43. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 6.00000E+03. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 7.42066E+01 SHOULD BE 4.19058E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 6.00000E+03. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 7.42066E+01 SHOULD BE 4.19058E+01
```

44. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 6.50000E+03. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 7.41565E+01 SHOULD BE 4.18775E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 6.50000E+03. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 7.41565E+01 SHOULD BE 4.18775E+01
```

45. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 7.00000E+03. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 7.41062E+01 SHOULD BE 4.18491E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 7.00000E+03. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 7.41062E+01 SHOULD BE 4.18491E+01
```

46. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 7.40561E+01 SHOULD BE 4.18208E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 7.40561E+01 SHOULD BE 4.18208E+01
```

47. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.00000E+03. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 7.40060E+01 SHOULD BE 4.17926E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 8.00000E+03. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 7.40060E+01 SHOULD BE 4.17926E+01
```

48. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.50000E+03. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 7.39559E+01 SHOULD BE 4.17642E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 8.50000E+03. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 7.39559E+01 SHOULD BE 4.17642E+01
```

49. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 9.00000E+03. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 7.39059E+01 SHOULD BE 4.17360E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 9.00000E+03. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 7.39059E+01 SHOULD BE 4.17360E+01
```

50. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 9.50000E+03. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 7.38559E+01 SHOULD BE 4.17077E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 9.50000E+03. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 7.38559E+01 SHOULD BE 4.17077E+01
```

51. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 7.38058E+01 SHOULD BE 4.16795E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 7.38058E+01 SHOULD BE 4.16795E+01
```

52. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 7.37060E+01 SHOULD BE 4.16231E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 7.37060E+01 SHOULD BE 4.16231E+01
```

53. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.20000E+04. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 7.36063E+01 SHOULD BE 4.15668E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.20000E+04. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 7.36063E+01 SHOULD BE 4.15668E+01
```

54. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.30000E+04. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 7.35067E+01 SHOULD BE 4.15106E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.30000E+04. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 7.35067E+01 SHOULD BE 4.15106E+01
```

55. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.40000E+04. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 7.34074E+01 SHOULD BE 4.14545E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.40000E+04. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 7.34074E+01 SHOULD BE 4.14545E+01
```

56. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 7.33081E+01 SHOULD BE 4.13984E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 7.33081E+01 SHOULD BE 4.13984E+01
```

57. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.60000E+04. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 7.32089E+01 SHOULD BE 4.13424E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.60000E+04. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 7.32089E+01 SHOULD BE 4.13424E+01
```

58. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.70000E+04. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 7.31099E+01 SHOULD BE 4.12865E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.70000E+04. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 7.31099E+01 SHOULD BE 4.12865E+01
```

59. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.80000E+04. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 7.30111E+01 SHOULD BE 4.12307E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.80000E+04. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 7.30111E+01 SHOULD BE 4.12307E+01
```

60. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.90000E+04. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 7.29123E+01 SHOULD BE 4.11749E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.90000E+04. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 7.29123E+01 SHOULD BE 4.11749E+01
```

61. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 7.28138E+01 SHOULD BE 4.11193E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 7.28138E+01 SHOULD BE 4.11193E+01
```

62. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 8.00000E-05 / ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 9.13793E+01 SHOULD BE 3.43097E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 8.00000E-05
ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 9.13793E+01 SHOULD BE 3.43097E+01
```

63. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 6.00000E+03. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 9.13178E+01 SHOULD BE 3.42866E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 6.00000E+03. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 9.13178E+01 SHOULD BE 3.42866E+01
```

64. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 6.50000E+03. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 9.12561E+01 SHOULD BE 3.42634E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 6.50000E+03. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 9.12561E+01 SHOULD BE 3.42634E+01
```

65. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 7.00000E+03. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 9.11943E+01 SHOULD BE 3.42402E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 7.00000E+03. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 9.11943E+01 SHOULD BE 3.42402E+01
```

66. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 9.11325E+01 SHOULD BE 3.42170E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 9.11325E+01 SHOULD BE 3.42170E+01
```

67. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.00000E+03. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 9.10710E+01 SHOULD BE 3.41939E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 8.00000E+03. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 9.10710E+01 SHOULD BE 3.41939E+01
```

68. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.50000E+03. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 9.10093E+01 SHOULD BE 3.41707E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 8.50000E+03. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 9.10093E+01 SHOULD BE 3.41707E+01
```

69. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 9.00000E+03. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 9.09478E+01 SHOULD BE 3.41476E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 9.00000E+03. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 9.09478E+01 SHOULD BE 3.41476E+01
```

70. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 9.50000E+03. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 9.08862E+01 SHOULD BE 3.41245E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 9.50000E+03. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 9.08862E+01 SHOULD BE 3.41245E+01
```

71. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 9.08246E+01 SHOULD BE 3.41014E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 9.08246E+01 SHOULD BE 3.41014E+01
```

72. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 9.07017E+01 SHOULD BE 3.40553E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 9.07017E+01 SHOULD BE 3.40553E+01
```

73. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.20000E+04. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 9.05790E+01 SHOULD BE 3.40092E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.20000E+04. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 9.05790E+01 SHOULD BE 3.40092E+01
```

74. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.30000E+04. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 9.04565E+01 SHOULD BE 3.39632E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.30000E+04. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 9.04565E+01 SHOULD BE 3.39632E+01
```

75. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.40000E+04. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 9.03343E+01 SHOULD BE 3.39173E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.40000E+04. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 9.03343E+01 SHOULD BE 3.39173E+01
```

76. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 9.02121E+01 SHOULD BE 3.38714E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 9.02121E+01 SHOULD BE 3.38714E+01
```

77. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.60000E+04. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 9.00900E+01 SHOULD BE 3.38256E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.60000E+04. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 9.00900E+01 SHOULD BE 3.38256E+01
```

78. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.70000E+04. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 8.99682E+01 SHOULD BE 3.37798E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.70000E+04. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 8.99682E+01 SHOULD BE 3.37798E+01
```

79. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.80000E+04. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 8.98466E+01 SHOULD BE 3.37342E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.80000E+04. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 8.98466E+01 SHOULD BE 3.37342E+01
```


80. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.90000E+04. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 8.97251E+01 SHOULD BE 3.36886E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.90000E+04. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 8.97251E+01 SHOULD BE 3.36886E+01
```

81. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 8.00000E-05 / DENSITY 8.96038E+01 SHOULD BE 3.36430E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 8.00000E-05
DENSITY 8.96038E+01 SHOULD BE 3.36430E+01
```

82. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 1.50000E-04 / ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.54812E+01 SHOULD BE 6.41112E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 1.50000E-04
ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.54812E+01 SHOULD BE 6.41112E+01
```

83. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 6.00000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.54305E+01 SHOULD BE 6.40681E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 6.00000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.54305E+01 SHOULD BE 6.40681E+01
```

84. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 6.50000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.53795E+01 SHOULD BE 6.40248E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 6.50000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.53795E+01 SHOULD BE 6.40248E+01
```

85. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 7.00000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.53285E+01 SHOULD BE 6.39814E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 7.00000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.53285E+01 SHOULD BE 6.39814E+01
```

86. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.52774E+01 SHOULD BE 6.39381E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.52774E+01 SHOULD BE 6.39381E+01
```

87. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.00000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.52266E+01 SHOULD BE 6.38949E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 8.00000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.52266E+01 SHOULD BE 6.38949E+01
```

88. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.50000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.51756E+01 SHOULD BE 6.38516E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 8.50000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.51756E+01 SHOULD BE 6.38516E+01
```

89. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 9.00000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.51248E+01 SHOULD BE 6.38084E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 9.00000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.51248E+01 SHOULD BE 6.38084E+01
```

90. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 9.50000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.50739E+01 SHOULD BE 6.37652E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 9.50000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.50739E+01 SHOULD BE 6.37652E+01
```

91. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.50231E+01 SHOULD BE 6.37220E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.50231E+01 SHOULD BE 6.37220E+01
```

92. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.49216E+01 SHOULD BE 6.36358E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.49216E+01 SHOULD BE 6.36358E+01
```

93. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.20000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.48202E+01 SHOULD BE 6.35498E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.20000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.48202E+01 SHOULD BE 6.35498E+01
```

94. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.30000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.47190E+01 SHOULD BE 6.34638E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.30000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.47190E+01 SHOULD BE 6.34638E+01
```

95. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.40000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.46181E+01 SHOULD BE 6.33781E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.40000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.46181E+01 SHOULD BE 6.33781E+01
```

96. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.45171E+01 SHOULD BE 6.32923E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.45171E+01 SHOULD BE 6.32923E+01
```

97. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.60000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.44163E+01 SHOULD BE 6.32067E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.60000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.44163E+01 SHOULD BE 6.32067E+01
```

98. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.70000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.43156E+01 SHOULD BE 6.31212E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.70000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.43156E+01 SHOULD BE 6.31212E+01
```

99. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.80000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.42152E+01 SHOULD BE 6.30359E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.80000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.42152E+01 SHOULD BE 6.30359E+01
```

100. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.90000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.41148E+01 SHOULD BE 6.29506E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.90000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.41148E+01 SHOULD BE 6.29506E+01
```

101. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.40147E+01 SHOULD BE 6.28655E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.40147E+01 SHOULD BE 6.28655E+01
```

102. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 1.50000E-04 / ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 6.88762E+01 SHOULD BE 4.57937E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 1.50000E-04
ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 6.88762E+01 SHOULD BE 4.57937E+01
```

103. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 6.00000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 6.88298E+01 SHOULD BE 4.57629E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 6.00000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 6.88298E+01 SHOULD BE 4.57629E+01
```

104. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 6.50000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 6.87833E+01 SHOULD BE 4.57320E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 6.50000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 6.87833E+01 SHOULD BE 4.57320E+01
```

105. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 7.00000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 6.87367E+01 SHOULD BE 4.57010E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 7.00000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 6.87367E+01 SHOULD BE 4.57010E+01
```

106. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 6.86902E+01 SHOULD BE 4.56701E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 6.86902E+01 SHOULD BE 4.56701E+01
```

107. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.00000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 6.86438E+01 SHOULD BE 4.56392E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 8.00000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 6.86438E+01 SHOULD BE 4.56392E+01
```

108. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.50000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 6.85973E+01 SHOULD BE 4.56083E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 8.50000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 6.85973E+01 SHOULD BE 4.56083E+01
```

109. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 9.00000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 6.85509E+01 SHOULD BE 4.55775E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 9.00000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 6.85509E+01 SHOULD BE 4.55775E+01
```

110. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 9.50000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 6.85045E+01 SHOULD BE 4.55466E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 9.50000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 6.85045E+01 SHOULD BE 4.55466E+01
```

111. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 6.84581E+01 SHOULD BE 4.55157E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 6.84581E+01 SHOULD BE 4.55157E+01
```

112. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 6.83655E+01 SHOULD BE 4.54542E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 6.83655E+01 SHOULD BE 4.54542E+01
```

113. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.20000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 6.82730E+01 SHOULD BE 4.53927E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.20000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 6.82730E+01 SHOULD BE 4.53927E+01
```

114. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.30000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 6.81806E+01 SHOULD BE 4.53313E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.30000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 6.81806E+01 SHOULD BE 4.53313E+01
```

115. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.40000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 6.80885E+01 SHOULD BE 4.52700E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.40000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 6.80885E+01 SHOULD BE 4.52700E+01
```

116. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 6.79964E+01 SHOULD BE 4.52088E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 6.79964E+01 SHOULD BE 4.52088E+01
```

117. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.60000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 6.79044E+01 SHOULD BE 4.51476E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.60000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 6.79044E+01 SHOULD BE 4.51476E+01
```

118. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.70000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 6.78126E+01 SHOULD BE 4.50866E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.70000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 6.78126E+01 SHOULD BE 4.50866E+01
```

119. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.80000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 6.77209E+01 SHOULD BE 4.50256E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.80000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 6.77209E+01 SHOULD BE 4.50256E+01
```

120. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.90000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 6.76293E+01 SHOULD BE 4.49647E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.90000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 6.76293E+01 SHOULD BE 4.49647E+01
```

121. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 6.75379E+01 SHOULD BE 4.49040E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 6.75379E+01 SHOULD BE 4.49040E+01
```

122. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 1.50000E-04 / ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.42566E+01 SHOULD BE 3.56173E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 1.50000E-04
ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.42566E+01 SHOULD BE 3.56173E+01
```

123. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 6.00000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.42066E+01 SHOULD BE 3.55934E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 6.00000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.42066E+01 SHOULD BE 3.55934E+01
```

124. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 6.50000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.41565E+01 SHOULD BE 3.55693E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 6.50000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.41565E+01 SHOULD BE 3.55693E+01
```

125. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 7.00000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.41062E+01 SHOULD BE 3.55452E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 7.00000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.41062E+01 SHOULD BE 3.55452E+01
```

126. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.40561E+01 SHOULD BE 3.55212E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.40561E+01 SHOULD BE 3.55212E+01
```

127. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.00000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.40060E+01 SHOULD BE 3.54972E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 8.00000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.40060E+01 SHOULD BE 3.54972E+01
```


128. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.50000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.39559E+01 SHOULD BE 3.54731E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 8.50000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.39559E+01 SHOULD BE 3.54731E+01
```

129. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 9.00000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.39059E+01 SHOULD BE 3.54491E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 9.00000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.39059E+01 SHOULD BE 3.54491E+01
```

130. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 9.50000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.38559E+01 SHOULD BE 3.54251E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 9.50000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.38559E+01 SHOULD BE 3.54251E+01
```

131. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.38058E+01 SHOULD BE 3.54011E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.38058E+01 SHOULD BE 3.54011E+01
```

132. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.37060E+01 SHOULD BE 3.53532E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.37060E+01 SHOULD BE 3.53532E+01
```

133. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.20000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.36063E+01 SHOULD BE 3.53054E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.20000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.36063E+01 SHOULD BE 3.53054E+01
```

134. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.30000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.35067E+01 SHOULD BE 3.52577E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.30000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.35067E+01 SHOULD BE 3.52577E+01
```

135. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.40000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.34074E+01 SHOULD BE 3.52100E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.40000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.34074E+01 SHOULD BE 3.52100E+01
```

136. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.33081E+01 SHOULD BE 3.51624E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.33081E+01 SHOULD BE 3.51624E+01
```

137. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.60000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.32089E+01 SHOULD BE 3.51148E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.60000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.32089E+01 SHOULD BE 3.51148E+01
```

138. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.70000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.31099E+01 SHOULD BE 3.50673E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.70000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.31099E+01 SHOULD BE 3.50673E+01
```

139. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.80000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.30111E+01 SHOULD BE 3.50199E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.80000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.30111E+01 SHOULD BE 3.50199E+01
```

140. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.90000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.29123E+01 SHOULD BE 3.49726E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.90000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.29123E+01 SHOULD BE 3.49726E+01
```

141. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 7.28138E+01 SHOULD BE 3.49253E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 7.28138E+01 SHOULD BE 3.49253E+01
```

142. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 1.50000E-04 / ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 9.13793E+01 SHOULD BE 2.91415E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 1.50000E-04
ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 9.13793E+01 SHOULD BE 2.91415E+01
```

143. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 6.00000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 9.13178E+01 SHOULD BE 2.91218E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 6.00000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 9.13178E+01 SHOULD BE 2.91218E+01
```

144. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 6.50000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 9.12561E+01 SHOULD BE 2.91022E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 6.50000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 9.12561E+01 SHOULD BE 2.91022E+01
```

145. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 7.00000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 9.11943E+01 SHOULD BE 2.90825E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 7.00000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 9.11943E+01 SHOULD BE 2.90825E+01
```

146. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 9.11325E+01 SHOULD BE 2.90628E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 9.11325E+01 SHOULD BE 2.90628E+01
```

147. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.00000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 9.10710E+01 SHOULD BE 2.90431E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 8.00000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 9.10710E+01 SHOULD BE 2.90431E+01
```

148. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.50000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 9.10093E+01 SHOULD BE 2.90234E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 8.50000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 9.10093E+01 SHOULD BE 2.90234E+01
```

149. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 9.00000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 9.09478E+01 SHOULD BE 2.90038E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 9.00000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 9.09478E+01 SHOULD BE 2.90038E+01
```

150. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 9.50000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 9.08862E+01 SHOULD BE 2.89842E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 9.50000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 9.08862E+01 SHOULD BE 2.89842E+01
```

151. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 9.08246E+01 SHOULD BE 2.89646E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 9.08246E+01 SHOULD BE 2.89646E+01
```

152. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 9.07017E+01 SHOULD BE 2.89254E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 9.07017E+01 SHOULD BE 2.89254E+01
```

153. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.20000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 9.05790E+01 SHOULD BE 2.88863E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.20000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 9.05790E+01 SHOULD BE 2.88863E+01
```

154. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.30000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 9.04565E+01 SHOULD BE 2.88472E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.30000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 9.04565E+01 SHOULD BE 2.88472E+01
```

155. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.40000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 9.03343E+01 SHOULD BE 2.88082E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.40000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 9.03343E+01 SHOULD BE 2.88082E+01
```

156. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 9.02121E+01 SHOULD BE 2.87692E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 9.02121E+01 SHOULD BE 2.87692E+01
```

157. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.60000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 9.00900E+01 SHOULD BE 2.87303E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.60000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 9.00900E+01 SHOULD BE 2.87303E+01
```

158. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.70000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 8.99682E+01 SHOULD BE 2.86915E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.70000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 8.99682E+01 SHOULD BE 2.86915E+01
```

159. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.80000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 8.98466E+01 SHOULD BE 2.86527E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.80000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 8.98466E+01 SHOULD BE 2.86527E+01
```

160. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.90000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 8.97251E+01 SHOULD BE 2.86139E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.90000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 8.97251E+01 SHOULD BE 2.86139E+01
```

161. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 8.96038E+01 SHOULD BE 2.85752E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 8.96038E+01 SHOULD BE 2.85752E+01
```

162. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 1.50000E-04 / ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 1.26187E+02 SHOULD BE 2.46582E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 1.50000E-04
ENERGY = 5.50300E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 1.26187E+02 SHOULD BE 2.46582E+01
```

163. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 6.00000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 1.26102E+02 SHOULD BE 2.46416E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 6.00000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 1.26102E+02 SHOULD BE 2.46416E+01
```

164. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 6.50000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 1.26016E+02 SHOULD BE 2.46249E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 6.50000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 1.26016E+02 SHOULD BE 2.46249E+01
```

165. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 7.00000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 1.25931E+02 SHOULD BE 2.46082E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 7.00000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 1.25931E+02 SHOULD BE 2.46082E+01
```

166. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 1.25846E+02 SHOULD BE 2.45916E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 7.50000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 1.25846E+02 SHOULD BE 2.45916E+01
```

167. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.00000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 1.25761E+02 SHOULD BE 2.45750E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 8.00000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 1.25761E+02 SHOULD BE 2.45750E+01
```

168. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 8.50000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 1.25675E+02 SHOULD BE 2.45583E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 8.50000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 1.25675E+02 SHOULD BE 2.45583E+01
```

169. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 9.00000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 1.25591E+02 SHOULD BE 2.45417E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 9.00000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 1.25591E+02 SHOULD BE 2.45417E+01
```

170. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 9.50000E+03. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 1.25506E+02 SHOULD BE 2.45251E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 9.50000E+03. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 1.25506E+02 SHOULD BE 2.45251E+01
```

171. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 1.25421E+02 SHOULD BE 2.45085E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.00000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 1.25421E+02 SHOULD BE 2.45085E+01
```

172. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 1.25251E+02 SHOULD BE 2.44753E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.10000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 1.25251E+02 SHOULD BE 2.44753E+01
```

173. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.20000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 1.25081E+02 SHOULD BE 2.44422E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.20000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 1.25081E+02 SHOULD BE 2.44422E+01
```

174. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.30000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 1.24912E+02 SHOULD BE 2.44092E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.30000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 1.24912E+02 SHOULD BE 2.44092E+01
```

175. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.40000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 1.24743E+02 SHOULD BE 2.43762E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.40000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 1.24743E+02 SHOULD BE 2.43762E+01
```


176. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 1.24575E+02 SHOULD BE 2.43432E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.50000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 1.24575E+02 SHOULD BE 2.43432E+01
```

177. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.60000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 1.24406E+02 SHOULD BE 2.43103E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.60000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 1.24406E+02 SHOULD BE 2.43103E+01
```

178. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.70000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 1.24238E+02 SHOULD BE 2.42774E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.70000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 1.24238E+02 SHOULD BE 2.42774E+01
```

179. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.80000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 1.24070E+02 SHOULD BE 2.42446E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.80000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 1.24070E+02 SHOULD BE 2.42446E+01
```

180. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 1.90000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 1.23902E+02 SHOULD BE 2.42118E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 1.90000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 1.23902E+02 SHOULD BE 2.42118E+01
```

181. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 1.50000E-04 / DENSITY 1.23735E+02 SHOULD BE 2.41791E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 2.00000E+04. STRENGTH FUNCTION IS 1.50000E-04
DENSITY 1.23735E+02 SHOULD BE 2.41791E+01
```

182. Non-threshold reaction with Q value differing from PSYCHE's expectations
FILE 3 / SECTION 22 / THE CALCULATED Q 5.55186E+05 DISSAGREES WITH THE GIVEN Q 5.21000E+05 (0): Iffy Q

```
FILE 3
SECTION 22
THE CALCULATED Q 5.55186E+05 DISSAGREES WITH THE GIVEN Q 5.21000E+05
```

183. Non-threshold reaction with Q value differing from PSYCHE's expectations
FILE 3 / SECTION 107 / THE CALCULATED Q 9.78396E+06 DISSAGREES WITH THE GIVEN Q 0.00000E+00 (0): Iffy Q

```
FILE 3
SECTION 107
THE CALCULATED Q 9.78396E+06 DISSAGREES WITH THE GIVEN Q 0.00000E+00
```

- linear Errors:

1. Negative cross section found
0: Neg. Sig(E)

```
Linearize ENDF/B Cross Sections (LINEAR 2015-1)
-----
Retrieval Criteria----- MAT
Monitor Mode----- Off
Minimum Cross Section----- 1.0000E-10 (Default Option)
... [83 more lines]
```

- recent Warnings:

1. Statistical weight of certain L values were incorrect
0: RRR goof (a)

```
Calculate Cross Sections from Resonance Parameters (RECENT 2015-1)
=====
Retrieval Criteria----- MAT
File 2 Minimum Cross Section- 1.0000E-10 (Standard Option)
Reactions with No Background- Output (Resonance Contribution)
... [1222 more lines]
```

- fudge-4.0 Warnings:

1. Missing a channel with a particular angular momenta combination
resonances / resolved (Error # 1): missingResonanceChannel

```
WARNING: Missing a channel with angular momenta combination L = 0, J = 2.0 and S = 2.0 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 2.0 and S = 2.0 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 3.0 and S = 2.0 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 3.0 and S = 3.0 for "capture"
... plus 1 more instances of this message
```

2. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 0: total (Error # 0): CS Sum.

```
WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 3.68%
```

3. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 0 (total): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

4. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 0 (total): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

5. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 1 (n + Nd143): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

6. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 1 (n + Nd143): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

7. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 2 ((z,n)): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

8. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 3 (n[multiplicity:'2'] + Nd142 + gamma): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

9. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 4 (Nd144 + gamma): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

10. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 4 (Nd144 + gamma): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

- fudge-4.0 Errors:

1. The spin statistical weights are off, indicating missing channels
resonances / resolved / MultiLevel_BreitWigner (Error # 0): badSpinStatisticalWeights

WARNING: The spin statical weights for L=1 sums to 2.0, but should sum to 3.0. You have too few channels for re

2. Calculated and tabulated Q values disagree.
reaction label 18: n[multiplicity:'2'] + Nd142 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6576957.550918579 eV vs -6.123e6 eV!

3. Calculated and tabulated Q values disagree.
reaction label 19: n[multiplicity:'3'] + Nd141 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -15972611.19512939 eV vs -1.5951e7 eV!

4. Calculated and tabulated Q values disagree.
reaction label 20: n + H1 + Pr142 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -7673291.981826782 eV vs -7.504e6 eV!

5. If an outgoing energy distribution ends with more than one energy with probability=0, proper unitbase treatment is unclear. Distribution should end with exactly one P=0 point.
reaction label 20: n + H1 + Pr142 + gamma / Product: n / Distribution: / energyAngular - XYs3d: (Error # 0): extraOutgoingEnergy

WARNING: Extra zero-probability outgoing energies found at incident energy 1.e7 eV

WARNING: Extra zero-probability outgoing energies found at incident energy 1.1e7 eV

WARNING: Extra zero-probability outgoing energies found at incident energy 1.2e7 eV

WARNING: Extra zero-probability outgoing energies found at incident energy 1.3e7 eV

... plus 8 more instances of this message

6. Calculated and tabulated Q values disagree.
reaction label 34: Nd144 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 7675728.557861328 eV vs 7.816e6 eV!

7. Calculated and tabulated Q values disagree.
reaction label 35: n + He4 + Ce139 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 735064.2547149658 eV vs 5.21e5 eV!

8. If an outgoing energy distribution ends with more than one energy with probability=0, proper unitbase treatment is unclear. Distribution should end with exactly one P=0 point.
reaction label 35: n + He4 + Ce139 + gamma / Product: n / Distribution: / energyAngular - XYs3d: (Error # 0): extraOutgoingEnergy

WARNING: Extra zero-probability outgoing energies found at incident energy 6.e6 eV

WARNING: Extra zero-probability outgoing energies found at incident energy 7.e6 eV

WARNING: Extra zero-probability outgoing energies found at incident energy 8.e6 eV

WARNING: Extra zero-probability outgoing energies found at incident energy 9.e6 eV

... plus 12 more instances of this message

9. Calculated and tabulated Q values disagree.
reaction label 36: n[multiplicity:'2'] + He4 + Ce138 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6781458.660614014 eV vs -6.934e6 eV!

10. If an outgoing energy distribution ends with more than one energy with probability=0, proper unitbase treatment is unclear. Distribution should end with exactly one P=0 point.
reaction label 36: n[multiplicity:'2'] + He4 + Ce138 + gamma / Product: n / Distribution: / energyAngular - XYs3d: (Error # 0): extraOutgoingEnergy

WARNING: Extra zero-probability outgoing energies found at incident energy 1.4e7 eV
 WARNING: Extra zero-probability outgoing energies found at incident energy 1.45e7 eV
 WARNING: Extra zero-probability outgoing energies found at incident energy 1.5e7 eV
 WARNING: Extra zero-probability outgoing energies found at incident energy 1.6e7 eV
 ... plus 4 more instances of this message

11. Calculated and tabulated Q values disagree.
reaction label 37: n[multiplicity:'2'] + H1 + Pr141 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -13310684.16833496 eV vs -1.3346e7 eV!

12. If an outgoing energy distribution ends with more than one energy with probability=0, proper unitbase treatment is unclear. Distribution should end with exactly one P=0 point.
reaction label 37: n[multiplicity:'2'] + H1 + Pr141 + gamma / Product: n / Distribution: / energyAngular - XYs3d: (Error # 0): extraOutgoingEnergy

WARNING: Extra zero-probability outgoing energies found at incident energy 1.6e7 eV
 WARNING: Extra zero-probability outgoing energies found at incident energy 1.7e7 eV
 WARNING: Extra zero-probability outgoing energies found at incident energy 1.8e7 eV
 WARNING: Extra zero-probability outgoing energies found at incident energy 1.9e7 eV
 ... plus 1 more instances of this message

13. Calculated and tabulated Q values disagree.
reaction label 38: He4 + Ce140-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 9582162.810668945 eV vs 0. eV!

14. Cross section domain does not match domain of linked reaction cross section sum
crossSectionSum label 1: (z,n) (Error # 0): summedCrossSectionDomainMismatch

WARNING: Cross section domain does not match domain of linked reaction cross section sum

15. Cross section domain does not match domain of linked reaction cross section sum
crossSectionSum label 2: (z,p) (Error # 0): summedCrossSectionDomainMismatch

WARNING: Cross section domain does not match domain of linked reaction cross section sum

• njoy2012 Warnings:

1. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (0): HEATR/hinit (4)

---message from hinit---mf6, mt102 does not give recoil za= 60144
 photon momentum recoil used.